## **CLAIMS**

1. The compound of the general formula (1):

wherein

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W and Y are both N and X and Z are both  $CR^8$  or X and Z are both N and W and Y are both  $CR^8$ ;

 $\mathbb{R}^8$  is H, halo,  $\mathbb{C}_{1-4}$  alkyl,  $\mathbb{C}_{1-4}$  alkoxy or halo  $(\mathbb{C}_{1-4})$  alkyl;

R and  $R^2$  are independently H, halo,  $C_{1-8}$  alkyl,  $C_{1-8}$  alkoxy,  $C_{1-8}$  alkylthio,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl, cyano or  $NR^3R^4$ , provided that at least one of R and  $R^2$  is  $NR^3R^4$ ;

 $R^1$  is halo,  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl( $C_{1-6}$ )-alkyl,  $C_{1-8}$  alkoxy,  $C_{1-8}$  alkylthio, aryl, aryloxy, arylthio, heteroaryl, heteroaryloxy, heteroarylthio, aryl( $C_{1-4}$ )alkyl, aryl( $C_{1-4}$ )alkoxy, heteroaryl( $C_{1-4}$ )alkyl, heteroaryl( $C_{1-4}$ )alkoxy, aryl( $C_{1-4}$ )alkylthio, heteroaryl( $C_{1-4}$ )alkylthio, morpholino, piperidino or pyrrolidino;

 $R^3$  and  $R^4$  are independently H,  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl, aryl, aryl( $C_{1-8}$ )-alkyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl( $C_{1-6}$ )alkyl, heteroaryl, heteroaryl( $C_{1-8}$ )alkyl,  $NR^5R^6$ , provided that not both  $R^3$  and  $R^4$  are H or  $NR^5R^6$ , or  $R^3$  and  $R^4$  together form a  $C_{3-7}$  alkylene or  $C_{3-7}$  alkenylene chain optionally substituted with one or more  $C_{3-7}$  alkylene or  $C_{3-7}$  alkenylene chain optionally

substituted with one or more  $C_{1.4}$  alkyl or  $C_{1.4}$  alkoxy groups, or, together with the nitrogen atom to which they are attached,  $R^3$  and  $R^4$  form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-( $C_{1.4}$ )alkyl (especially N-methyl) ring; and  $R^5$  and  $R^6$  are independently H,  $C_{1.8}$  alkyl,  $C_{2.8}$  alkenyl,  $C_{2.8}$  alkynyl, aryl, aryl( $C_{1.8}$ )-alkyl,  $C_{3.8}$  cycloalkyl,  $C_{3.8}$  cycloalkyl( $C_{1.6}$ )alkyl, heteroaryl or heteroaryl( $C_{1.8}$ )alkyl; any of the foregoing alkyl, alkenyl, alkynyl or cycloalkyl groups or moieties (other

alkyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl,  $C_{1-6}$  alkyl, heteroaryl or heteroaryl  $(C_{1-8})$  alkyl; any of the foregoing alkyl, alkenyl, alkynyl or cycloalkyl groups or moieties (other than for  $R^8$ ) being optionally substituted with halogen, cyano,  $C_{1-6}$  alkoxy,  $C_{1-6}$  alkylcarbonyl,  $C_{1-6}$  alkoxycarbonyl,  $C_{1-6}$  haloalkoxy,  $C_{1-6}$  alkylthio, tri $(C_{1-4})$  alkylsilyl,  $C_{1-6}$  alkylamino or  $C_{1-6}$  dialkylamino,

any of the foregoing morpholine, thiomorpholine, piperidine, piperazine and pyrrolidine rings being optionally substituted with C1.4 alkyl (especially methyl), and any of the foregoing aryl or heteroaryl groups or moieties being optionally substituted with one or more substituents selected from halo, hydroxy, mercapto,  $C_{1-6}$  alkyl,  $C_{2-6}$ alkenyl,  $C_{2-6}$  alkynyl,  $C_{1-6}$  alkoxy,  $C_{2-6}$  alkenyloxy,  $C_{2-6}$  alkynyloxy, halo( $C_{1-6}$ )alkyl, 5  ${\rm halo}(C_{1\text{-}6}) \\ {\rm alkoxy}, \ C_{1\text{-}6} \ {\rm alkylthio}, \ {\rm halo}(C_{1\text{-}6}) \\ {\rm alkylthio}, \ {\rm hydroxy}(C_{1\text{-}6}) \\ {\rm alkyl}, \ C_{1\text{-}4} \ {\rm alkoxy-} \\ {\rm halo}(C_{1\text{-}6}) \\ {\rm alkylthio}, \ {\rm hydroxy}(C_{1\text{-}6}) \\ {\rm hydroxy}(C_{1\text{-}6}) \\ {\rm alkylthio}, \ {\rm hydroxy}(C_{1\text{-}6}) \\ {\rm$ (C<sub>1-6</sub>)alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR"R"", -NHCOR", -NHCONR"R"", -CONR"R"", -SO<sub>2</sub>R", -OSO<sub>2</sub>R", -COR", -CR""=NR"" 10 or -N=CR"'R"", in which R" and R"" are independently hydrogen, C1-4 alkyl, halo- $(C_{1-4})$ alkyl,  $C_{1-4}$  alkoxy, halo $(C_{1-4})$ alkoxy,  $C_{1-4}$  alkylthio,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$ cycloalkyl( $C_{1-4}$ )alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen, C1-4 alkyl or C1-4 alkoxy; provided that Y is not CCH3 when W is CH, X and Z are N, R is NHCH3, R1 is 2,6dichlorophenyl and R<sup>2</sup> is H.

- A compound according to claim 1 wherein W and Y are both N and X and Z are both 2. CH or X and Z are both N and W and Y are both CH.
- 20 3. A compound according to claim 1 or 2 wherein R<sup>2</sup> is NR<sup>3</sup>R<sup>4</sup>.
  - 4. A compound according to claim 3 wherein R is halo.
- A compound according to any one of the preceding claims wherein 5.  $R^3$  is  $C_{1-8}$  alkyl, halo $(C_{1-8})$ alkyl, hydroxy $(C_{1-8})$ alkyl,  $C_{1-4}$  alkoxy $(C_{1-8})$ alkyl,  $C_{1-4}$ 25 alkoxyhalo( $C_{1-8}$ )alkyl, tri( $C_{1-4}$ )alkylsilyl( $C_{1-6}$ )alkyl,  $C_{1-4}$  alkylcarbonyl( $C_{1-8}$ )alkyl,  $C_{1-4}$ alkylcarbonylhalo( $C_{1-8}$ )alkyl, phenyl( $_{1-4}$ )alkyl,  $C_{2-8}$  alkenyl, halo( $C_{2-8}$ )alkenyl,  $C_{2-8}$ alkynyl, C<sub>3-8</sub> cycloalkyl optionally substituted with chloro, fluoro or methyl, C<sub>3-8</sub> cycloalkyl( $C_{1-4}$ )alkyl, phenylamino, piperidino or morpholino, the phenyl ring of phenylalkyl or phenylamino being optionally substituted with one, two or three 30 substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy and halo-(C1-4)alkoxy; and

R<sup>4</sup> is H, C<sub>1-4</sub> alkyl, halo(C<sub>1-4</sub>)alkyl or amino, or

R<sup>3</sup> and R<sup>4</sup> together form a C<sub>3-7</sub> alkylene or alkenylene chain optionally substituted with methyl, or,

together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C<sub>1-4</sub>)alkyl (especially N-methyl) ring, in which the morpholine or piperazine rings are optionally substituted with methyl.

- 6. A compound according to any one of the preceding claims wherein
  R¹ is phenyl optionally substituted with from one to five halogen atoms or with from one to three substituents selected from halo, C₁-4 alkyl, halo(C₁-4)alkyl, C₁-4 alkoxy or halo(C₁-4)alkoxy, pyridyl optionally substituted with from one to four halogen atoms or with from one to three substituents selected from halo, C₁-4 alkyl, halo(C₁-4)alkyl, C₁-4 alkoxy or halo(C₁-4)alkoxy, 2- or 3-thienyl optionally substituted with from one to three halogen atoms or with from one to three substituents selected from halo, C₁-4 alkyl, halo(C₁-4)alkyl, C₁-4 alkoxy or halo(C₁-4)alkoxy, or piperidino or morpholino both optionally substituted with one or two methyl groups.
- 7. A compound according to claim 6 wherein R<sup>1</sup> is 2,6-difluorophenyl, 2-fluoro-6-chlorophenyl, 2,5,6-trifluorophenyl, 2,4,6-trifluorophenyl, 2,6-difluoro-4-methoxy-phenyl or pentafluorophenyl.
- 8. A compound according to claim 1 wherein

  W and Y are both N and X and Z are both CR<sup>8</sup> or X and Z are both N and W and Y

  are both CR<sup>8</sup>;

  R<sup>8</sup> is H, halo, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy or halo(C<sub>1-4</sub>)alkyl;

  one of R and R<sup>2</sup> (preferably R<sup>2</sup>) is NR<sup>3</sup>R<sup>4</sup> and the other is halo;

  R<sup>1</sup> is halo, C<sub>1-8</sub> alkyl, C<sub>2-8</sub> alkenyl, C<sub>2-8</sub> alkynyl, C<sub>3-8</sub> cycloalkyl, C<sub>3-8</sub> cycloalkyl(C<sub>1-6</sub>)
  alkyl, C<sub>1-8</sub> alkoxy, C<sub>1-8</sub> alkylthio, aryl, aryloxy, arylthio, heteroaryl, heteroaryloxy,

  heteroarylthio, aryl(C<sub>1-4</sub>)alkyl, aryl(C<sub>1-4</sub>)alkoxy, heteroaryl(C<sub>1-4</sub>)alkyl, heteroaryl
  (C<sub>1-4</sub>)alkoxy, aryl(C<sub>1-4</sub>)alkylthio, heteroaryl(C<sub>1-4</sub>)alkylthio, morpholino, piperidino or pyrrolidino;

 $R^3$  and  $R^4$  are independently H,  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl, aryl, aryl( $C_{1-8}$ )alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>3-8</sub> cycloalkyl(C<sub>1-6</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1-8</sub>)alkyl, NR<sup>5</sup>R<sup>6</sup>, provided that not both R<sup>3</sup> and R<sup>4</sup> are H or NR<sup>5</sup>R<sup>6</sup>, or R<sup>3</sup> and R<sup>4</sup> together form a C<sub>3-7</sub> alkylene or a C<sub>3-7</sub> alkylene chain optionally substituted with one or more C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy groups, or, 5 together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C1-4)alkyl (especially N-methyl) ring; and  $R^{5}$  and  $R^{6}$  are independently H,  $C_{1\text{--}8}$  alkyl,  $C_{2\text{--}8}$  alkenyl,  $C_{2\text{--}8}$  alkynyl, aryl, aryl( $C_{1\text{--}8}$ )alkyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl( $C_{1-6}$ )alkyl, heteroaryl or heteroaryl( $C_{1-8}$ )alkyl; 10 any of the foregoing alkyl, alkenyl, alkynyl or cycloalkyl groups or moieties (other than for R<sup>8</sup>) being optionally substituted with halogen, cyano, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkylcarbonyl, C<sub>1-6</sub> alkoxycarbonyl, C<sub>1-6</sub> haloalkoxy, C<sub>1-6</sub> alkylthio, tri(C<sub>1-4</sub>)alkylsilyl,  $C_{1-6}$  alkylamino or  $C_{1-6}$  dialkylamino, 15 any of the foregoing morpholine, thiomorpholine, piperidine, piperazine and pyrrolidine rings being optionally substituted with C<sub>1-4</sub> alkyl (especially methyl), and any of the aryl, heteroaryl, aryloxy or heteroaryl groups being optionally substituted with one or more substituents selected from halo, hydroxy, mercapto, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C2-6 alkynyl, C1-6 alkoxy, C2-6 alkenyloxy, C2-6 alkynyloxy, halo(C1-6)alkyl, halo(C<sub>1-6</sub>)alkoxy, C<sub>1-6</sub> alkylthio, halo(C<sub>1-6</sub>)alkylthio, hydroxy(C<sub>1-6</sub>)alkyl, C<sub>1-4</sub> alkoxy-20 (C<sub>1-6</sub>)alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR"R"", -NHCOR", -NHCONR"R"", -CONR"R"", -SO<sub>2</sub>R", -OSO<sub>2</sub>R", -COR", -CR"'=NR"" or -N=CR""R"", in which R" and R"" are independently hydrogen, C1-4 alkyl, halo-(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub> alkoxy, halo(C<sub>1-4</sub>)alkoxy, C<sub>1-4</sub> alkylthio, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C1-4)alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally

9. A compound according to claim 1 wherein

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W and Y are both N and X and Z are both CR8 or X and Z are both N and W and Y 30 are both CR8:

 $R^8$  is H, halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkyl;

substituted with halogen, C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy.

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one of R and R<sup>2</sup> (preferably R<sup>2</sup>) is NR<sup>3</sup>R<sup>4</sup> and the other is halo:  $R^1$  is halo,  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl( $C_{1-6}$ )alkyl, C<sub>1-8</sub> alkoxy, C<sub>1-8</sub> alkylthio, aryl, aryloxy, arylthio, heteroaryl, heteroaryloxy, heteroarylthio, aryl(C<sub>1-4</sub>)alkyl, aryl(C<sub>1-4</sub>)alkoxy, heteroaryl(C<sub>1-4</sub>)alkyl, heteroaryl-(C<sub>1-4</sub>)alkoxy, aryl(C<sub>1-4</sub>)alkylthio, heteroaryl(C<sub>1-4</sub>)alkylthio, morpholino, piperidino or pyrrolidino;  $R^3$  is  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{2-4}$  alkenyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl( $C_{1-4}$ )alkyl or phenylamino in which the phenyl ring is optionally substituted with one, two or three substituents selected from halo, C1-4 alkyl, halo(C1-4)alkyl, C1-4 alkoxy and halo(C<sub>1-4</sub>)alkoxy; and R<sup>4</sup> is H, C<sub>1-4</sub> alkyl or amino, or R<sup>3</sup> and R<sup>4</sup> together form a C<sub>4-6</sub> alkylene chain optionally substituted with C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy, or, together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C<sub>1-4</sub>)alkyl (especially N-methyl) ring; any of the alkyl, alkenyl, alkynyl or cycloalkyl groups or moieties (other than for R<sup>8</sup>) being optionally substituted with halogen, cyano, C1-6 alkoxy, C1-6 alkylcarbonyl, C1-6 alkoxycarbonyl, C<sub>1-6</sub> haloalkoxy, C<sub>1-6</sub> alkylthio, tri(C<sub>1-4</sub>)alkylsilyl, C<sub>1-6</sub> alkylamino or C<sub>1-6</sub> dialkylamino, any of the foregoing morpholine, thiomorpholine, piperazine and pyrrolidine rings being optionally substituted with C1-4 alkyl (especially methyl), and any of the aryl or heteroaryl groups or moieties being optionally substituted with one or more substituents selected from halo, hydroxy, mercapto, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl,

any of the aryl or heteroaryl groups or moieties being optionally substituted with one or more substituents selected from halo, hydroxy, mercapto, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, C<sub>1-6</sub> alkoxy, C<sub>2-6</sub> alkenyloxy, C<sub>2-6</sub> alkynyloxy, halo(C<sub>1-6</sub>)alkyl, halo(C<sub>1-6</sub>)-alkoxy, C<sub>1-6</sub> alkylthio, halo(C<sub>1-6</sub>)alkylthio, hydroxy(C<sub>1-6</sub>)alkyl, C<sub>1-4</sub> alkoxy(C<sub>1-6</sub>)alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR"R"", -NHCOR", -NHCONR""R"", -CONR"R"", -SO<sub>2</sub>R"', -OSO<sub>2</sub>R"', -COR", -CR"=NR"" or -N=CR"R"", in which R" and R"" are independently hydrogen, C<sub>1-4</sub> alkyl, halo(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub> alkoxy, halo-(C<sub>1-4</sub>)alkoxy, C<sub>1-4</sub> alkylthio, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen, C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy.

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10. A compound according to claim 1 wherein W and X, W and Z, X and Y or Y and Z are N and the other two are CR8;  $\mathbb{R}^8$  is H, halo,  $\mathbb{C}_{1-4}$  alkyl,  $\mathbb{C}_{1-4}$  alkoxy or halo  $(\mathbb{C}_{1-4})$  alkyl: R and R<sup>2</sup> are independently H, halo, C<sub>1-8</sub> alkyl, C<sub>1-8</sub> alkoxy, C<sub>1-8</sub> alkylthio, C<sub>2-8</sub> alkenyl, C<sub>2-8</sub> alkynyl, cyano or NR<sup>3</sup>R<sup>4</sup>, provided that at least one of R and R<sup>2</sup> (preferably R<sup>2</sup>) is NR<sup>3</sup>R<sup>4</sup>; R<sup>1</sup> is optionally substituted phenyl;  $\mbox{R}^{3}$  and  $\mbox{R}^{4}$  are independently H,  $\mbox{C}_{1\text{-}8}$  alkyl,  $\mbox{C}_{2\text{-}8}$  alkenyl,  $\mbox{C}_{2\text{-}8}$  alkynyl, aryl, aryl( $\mbox{C}_{1\text{-}8}$ )alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>3-8</sub> cycloalkyl(C<sub>1-6</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1-8</sub>)alkyl, NR<sup>5</sup>R<sup>6</sup>, provided that not both R<sup>3</sup> and R<sup>4</sup> are H or NR<sup>5</sup>R<sup>6</sup>, or R<sup>3</sup> and R<sup>4</sup> together form a C<sub>3-7</sub> alkylene or C<sub>3-7</sub> alkenylene chain optionally substituted with one or more C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy groups, or, together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C<sub>1-4</sub>)alkyl (especially N-methyl) ring; and  $R^5$  and  $R^6$  are independently H,  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl, aryl, aryl( $C_{1-8}$ )alkyl,  $C_{3-8}$  cycloalkyl,  $C_{3-8}$  cycloalkyl( $C_{1-6}$ )alkyl, heteroaryl or heteroaryl( $C_{1-8}$ )alkyl; any of the alkyl, alkenyl, alkynyl or cycloalkyl groups or moieties (other than for R8) being optionally substituted with halogen, cyano, C1-6 alkoxy, C1-6 alkylcarbonyl, C1-6 alkoxycarbonyl, C1-6 haloalkoxy, C1-6 alkylthio, tri(C1-4)alkylsilyl, C1-6 alkylamino or C<sub>1-6</sub> dialkylamino, any of the foregoing morpholine, thiomorpholine, piperidine, piperazine and pyrrolidine rings being optionally substituted with C<sub>1-4</sub> alkyl (especially methyl), and any of the aryl or heteroaryl groups or moieties, including the phenyl group of R1, being optionally substituted with one or more substituents selected from halo, hydroxy, mercapto, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, C<sub>1-6</sub> alkoxy, C<sub>2-6</sub> alkenyloxy,  $C_{2-6}$  alkynyloxy, halo $(C_{1-6})$ alkyl, halo $(C_{1-6})$ alkoxy,  $C_{1-6}$  alkylthio, halo $(C_{1-6})$ alkylthio, hydroxy( $C_{1-6}$ )alkyl,  $C_{1-4}$  alkoxy( $C_{1-6}$ )alkyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl( $C_{1-4}$ )alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro,

-NR"'R"", -NHCOR", -NHCONR"'R"", -CONR"'R"", -SO<sub>2</sub>R", -OSO<sub>2</sub>R", -COR", -CR"'=NR"" or -N=CR"'R'", in which R" and R"" are independently hydrogen, C<sub>1-4</sub>

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alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy, halo( $C_{1-4}$ )alkoxy,  $C_{1-4}$  alkylthio,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen,  $C_{1-4}$  alkyl or  $C_{1-4}$  alkoxy; provided that Y is not CCH<sub>3</sub> when W is CH, X and Z are N, R is NHCH<sub>3</sub>,  $R^1$  is 2,6-dichlorophenyl and  $R^2$  is H.

11. A compound according to claim 1 wherein

W and X, W and Z, X and Y or Y and Z are N and the other two are  $CR^8$ ;  $R^8$  is H, halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkyl;

10 R is H, halo, C<sub>1-4</sub> alkyl), C<sub>1-4</sub> alkoxy or cyano;

 $R^1$  is phenyl optionally substituted with from one to five halogen atoms or with from one to three substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkoxy, pyridyl optionally substituted with from one to four halogen atoms or with from one to three substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,

 $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkoxy, 2- or 3-thienyl optionally substituted with from one to three halogen atoms or with from one to three substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkoxy, or piperidino or morpholino both optionally substituted with one or two methyl groups;

 $R^2$  is  $NR^3R^4$ ;

R<sup>3</sup> is C<sub>1-8</sub> alkyl, halo(C<sub>1-8</sub>)alkyl, hydroxy(C<sub>1-8</sub>)alkyl, C<sub>1-4</sub> alkoxy(C<sub>1-8</sub>)alkyl, C<sub>1-4</sub> alkoxyhalo(C<sub>1-8</sub>)alkyl, tri(C<sub>1-4</sub>)alkylsilyl(C<sub>1-6</sub>)alkyl, C<sub>1-4</sub> alkylcarbonyl(C<sub>1-8</sub>)alkyl, C<sub>1-4</sub> alkylcarbonylhalo(C<sub>1-8</sub>)alkyl, phenyl(<sub>1-4</sub>)alkyl, C<sub>2-8</sub> alkenyl, halo(C<sub>2-8</sub>)alkenyl, C<sub>2-8</sub> alkynyl, C<sub>3-8</sub> cycloalkyl optionally substituted with chloro, fluoro or methyl, C<sub>3-8</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenylamino, piperidino or morpholino, the phenyl ring of phenylalkyl or phenylamino being optionally substituted with one, two or three substituents selected from halo, C<sub>1-4</sub> alkyl, halo(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub> alkoxy and halo-(C<sub>1-4</sub>)alkoxy; and

 $R^4$  is H,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl or amino, or

 $R^3$  and  $R^4$  together form a  $C_{3-7}$  alkylene or  $C_{3-7}$  alkenylene chain optionally substituted with methyl, or,

together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide

ring or a piperazine or piperazine N- $(C_{1.4})$ alkyl (especially N-methyl) ring, in which the morpholine or piperazine rings are optionally substituted with methyl

12. A compound according to claim 1 wherein

W and X, W and Z, X and Y or Y and Z are N and the other two are CR<sup>8</sup>;

R<sup>8</sup> is H, halo, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy or halo(C<sub>1-4</sub>)alkyl;

R is halo;

 $R^1$  is phenyl optionally substituted with from one to five halogen atoms or with from one to three substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy or halo( $C_{1-4}$ )alkoxy;

 $R^2$  is  $NR^3R^4$ ;

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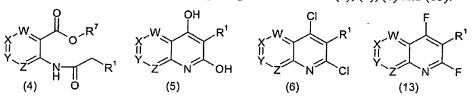
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 $R^3$  is  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{2-4}$  alkenyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl( $C_{1-4}$ )-alkyl or phenylamino in which the phenyl ring is optionally substituted with one, two or three substituents selected from halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{1-4}$  alkoxy and halo( $C_{1-4}$ )alkoxy; and

R<sup>4</sup> is H, C<sub>1-4</sub> alkyl or amino, or R<sup>3</sup> and R<sup>4</sup> together form a C<sub>4-6</sub> alkylene chain optionally substituted with methyl, or, together with the nitrogen atom to which they are attached, R<sup>3</sup> and R<sup>4</sup> form a morpholine ring.

A process for preparing a compound of the general formula (1) according to claim 1 wherein one of R and R<sup>2</sup> is chloro or fluoro and the other is NR<sup>3</sup>R<sup>4</sup> and W, X, Y, Z, R<sup>1</sup>, R<sup>3</sup> and R<sup>4</sup> are as defined in claim 1, which comprises reacting an amine of the general formula NR<sup>3</sup>R<sup>4</sup> with a compound of the general formula (6) or (13):

14. The intermediate chemicals having the general formulae (4), (5), (6) and (13):



wherein W, X, Y, Z and  $R^1$  are as defined in claim1 and  $R^7$  is  $C_{1-4}$  alkyl, other than those compounds of the general formula (5) wherein W and Y are both CH and X and Z are both N and  $R^1$  is methyl, ethyl or phenyl

- 15. A plant fungicidal composition comprising a fungicidally effective amount of a compound as defined in claim 1 and a suitable carrier or diluent therefor.
- 10 16. A method of combating or controlling phytopathogenic fungi which comprises applying to a plant, to a seed of a plant, to the locus of the plant or seed or to soil or to any other plant growth medium, a fungicidally effective amount of a compound according to claim 1 or a composition according to claim 15.